

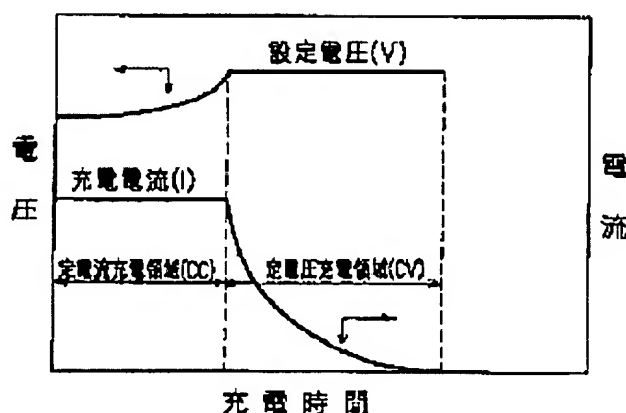
**CHARGING METHOD FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERY**

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**Inventor:** INOUE KAORU; KOSHINA HIDE; SHIMAMURA HARUNARI; NITTA YOSHIAKI  
**Applicant:** MATSUSHITA ELECTRIC IND CO LTD  
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- international: H01M10/44; H01M4/02; H01M4/38; H01M10/40; H02J7/10  
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**Abstract of JP2000173670**

**PROBLEM TO BE SOLVED:** To improve a charging/discharging cycle life characteristic of a nonaqueous electrolyte secondary battery using tin for a negative electrode. **SOLUTION:** In charging a secondary battery provided with composite particles, in which the whole or a part of the circumference of a nucleus particle consisting of a solid phase A using tin is covered by a solid phase B, in a negative electrode, a constant current charging area, in which charging is carried out at a fixed current value  $I$  until a set voltage  $E$  is attained, and a constant voltage charging area, in which charging is carried out at the set voltage  $E$  after the set voltage  $E$  is attained, are combined together for charging, and a charging current value in the constant current charging area and the fixed voltage charging area is regulated to 5 mA/cm<sup>2</sup> or less in the form of current density for a part in which the positive and negative electrodes face each other.



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